

144361

**SEARCH REQUEST FORM Scientific and Technical Information Center - EIC2800**

Rev. 3/15/2004 This is an experimental format -- Please give suggestions or comments to Jeff Harrison, JEF-4B68, 272-2511.

Date	2/4/05	Serial #	091837,877	Priority Application Date	Dec. 98
Your Name	M. Lewis			Examiner #	
AU	2822	Phone	272-1838	Room	5A30
In what format would you like your results? Paper is the default.				<input checked="" type="radio"/> PAPER	<input type="radio"/> DISK <input type="radio"/> EMAIL

If submitting more than one search, please prioritize in order of need.

need before 2/14

The EIC searcher normally will contact you before beginning a prior art search. If you would like to sit with a searcher for an interactive search, please notify one of the searchers.

Where have you searched so far on this case?

Circle: USPT DWPI EPO Abs JPO Abs IBM TDB

Other: \_\_\_\_\_

What relevant art have you found so far? Please attach pertinent citations or Information Disclosure Statements. \_\_\_\_\_

What types of references would you like? Please checkmark:

Primary Refs <input checked="" type="checkbox"/>	Nonpatent Literature <input type="checkbox"/>	Other <input type="checkbox"/>
Secondary Refs <input checked="" type="checkbox"/>	Foreign Patents <input type="checkbox"/>	<input type="checkbox"/>
Teaching Refs <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What is the topic, such as the **novelty**, motivation, utility, or other specific facets defining the desired **focus** of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

Claims 1, 4-9, 17-24

Problem: See paragraphs 4-10

Solution: " " 11-21

Pixel

TFT

Wiring

LDD LATID overlap

**Staff Use Only**Searcher: HARRISONSearcher Phone: 22511

Searcher Location: STIC-EIC2800, JEF-4B68

Date Searcher Picked Up: 2-14-05Date Completed: 2-14-05Searcher Prep/Rev Time: 45Online Time: 59**Type of Search**

Structure (#) \_\_\_\_\_

Bibliographic ☒

Litigation \_\_\_\_\_

Fulltext \_\_\_\_\_

Patent Family \_\_\_\_\_

Other DPCI**Vendors**STN ☒

Dialog \_\_\_\_\_

Questel/Orbit \_\_\_\_\_

Lexis-Nexis \_\_\_\_\_

WWW/Internet \_\_\_\_\_

Other \_\_\_\_\_

FILE 'INSPEC, NTIS, COMPENDEX, CEABA-VTB, JICST-EPLUS, WPIX, JAPIO, HCAPLUS' ENTERED AT 17:22:56 ON 14 FEB 2005

L1 23025 SEA ABB=ON PLU=ON SAME(2A) LAYER###  
 L2 12535 SEA ABB=ON PLU=ON CAPACITOR(3A)(WIRING OR WIRE OR LINE)  
 L3 172868 SEA ABB=ON PLU=ON (FIRST OR 1ST OR ONE OR 1)(2W)(WIRING OR WIRE OR LINE)  
 L4 57 SEA ABB=ON PLU=ON L1 AND L2  
 L5 358 SEA ABB=ON PLU=ON L1 AND L3  
 L6 983 SEA ABB=ON PLU=ON L2 AND L3  
 L7 10855 SEA ABB=ON PLU=ON (PICTURE ELEMENT OR PIXEL#####)(6A)(TRANSISTOR OR THIN FILM OR TFT)  
 L8 6 SEA ABB=ON PLU=ON L4 AND L5  
 L9 1 SEA ABB=ON PLU=ON L7 AND L8  
 L10 1 SEA ABB=ON PLU=ON L8 AND PRY>1998  
 L11 3 SEA ABB=ON PLU=ON L8 AND 1999-2005/PY  
 L12 5 SEA ABB=ON PLU=ON L8 NOT L9  
 L13 31 SEA ABB=ON PLU=ON (L4 OR L5 OR L6) AND L7  
 L14 30 SEA ABB=ON PLU=ON L13 NOT L8  
 L15 6 SEA ABB=ON PLU=ON L14 AND CHANNEL  
 L16 9 SEA ABB=ON PLU=ON L14 AND OVERLAP?  
 L17 12 SEA ABB=ON PLU=ON L14 AND (INTERMEDIATE OR INTERLAYER#### OR INTERPOS##### OR ILD OR INTER)  
 L18 4 SEA ABB=ON PLU=ON L15 AND (L16 OR L17)  
 L19 6 SEA ABB=ON PLU=ON L16 AND L17  
 L20 8 SEA ABB=ON PLU=ON (L18 OR L19) NOT L8  
 L21 22 SEA ABB=ON PLU=ON (L14 OR L15 OR L16 OR L17) NOT (L20 OR L8)  
 L22 1 SEA ABB=ON PLU=ON L21 AND (CONCENTRATION OR DOP##### OR IMPUR#####)  
 L23 0 SEA ABB=ON PLU=ON L21 AND 1988/PY  
 L24 3 SEA ABB=ON PLU=ON L21 AND 1998/PY  
 L25 5 SEA ABB=ON PLU=ON L21 AND 1997/PY

FILE 'REGISTRY' ENTERED AT 17:43:49 ON 14 FEB 2005

L26 6 SEA ABB=ON PLU=ON (TANTALUM OR CHROMIUM OR TITANIUM OR MOLYBDENUM OR TUNGSTEN OR SILICON)/CN

FILE 'REGISTRY' ENTERED AT 17:44:00 ON 14 FEB 2005

L27 208754 SEA ABB=ON PLU=ON (TANTALUM OR CHROMIUM OR TITANIUM OR MOLYBDENUM OR TUNGSTEN OR SILICON)(3A)ALLOY####  
 L28 249 SEA ABB=ON PLU=ON L27 AND SILICIDE  
 L29 107894 SEA ABB=ON PLU=ON L27 AND CR/ELS,MAC  
 L30 14421 SEA ABB=ON PLU=ON L27 AND TA/ELS,MAC  
 L31 60478 SEA ABB=ON PLU=ON L27 AND TI/ELS,MAC  
 L32 65957 SEA ABB=ON PLU=ON L27 AND MO/ELS,MAC  
 L33 37736 SEA ABB=ON PLU=ON L27 AND W/ELS,MAC  
 L34 103673 SEA ABB=ON PLU=ON L27 AND SI/ELS,MAC  
 L35 86930 SEA ABB=ON PLU=ON L29 AND (L30 OR L31 OR L32 OR L33 OR L34)  
 L36 10401 SEA ABB=ON PLU=ON L30 AND (L31 OR L32 OR L33 OR L34)  
 L37 32194 SEA ABB=ON PLU=ON L31 AND (L32 OR L33 OR L34)  
 L38 42307 SEA ABB=ON PLU=ON L32 AND (L33 OR L34)  
 L39 11527 SEA ABB=ON PLU=ON L33 AND L34

L40 243 SEA ABB=ON PLU=ON (L29 OR L30 OR L31 OR L32 OR L33 OR L34 OR  
L35 OR L36 OR L37 OR L38 OR L39) AND 3/ELC  
L41 21115 SEA ABB=ON PLU=ON (L29 OR L30 OR L31 OR L32 OR L33 OR L34 OR  
L35 OR L36 OR L37 OR L38 OR L39) AND 2/ELC  
L42 145952 SEA ABB=ON PLU=ON (TA OR TI OR BA OR HF OR BI OR W OR TH OR  
PB)/ELS,MAC AND OXIDE  
L43 354 SEA ABB=ON PLU=ON (TA OR TI OR BA OR HF OR BI OR W OR TH OR  
PB)/ELS,MAC AND DIOXIDE  
L44 13146 SEA ABB=ON PLU=ON (TA OR TI OR BA OR HF OR BI OR W OR TH OR  
PB)/ELS,MAC AND (CHLORIDE OR BROMIDE OR IODIDE OR FLUORIDE OR  
ASTATIDE)  
L45 15721 SEA ABB=ON PLU=ON L42 AND 2/ELC  
L46 11551 SEA ABB=ON PLU=ON L42 AND 3/ELC

FILE 'HCAPLUS' ENTERED AT 17:49:12 ON 14 FEB 2005  
E PIXELS/CT

FILE 'HCAPLUS' ENTERED AT 17:49:30 ON 14 FEB 2005

E PICTURE ELEMENTS/CT

E TFTS/CT

E E2+ALL/CT

E THIN FILM TRANSISTORS/CT

E E3+ALL/CT

L47 3738 SEA ABB=ON PLU=ON (PICTURE ELEMENT OR PIXEL#####) AND  
("THIN FILM TRANSISTORS"/CT OR TFT OR (THIN FILM AND TRANSISTOR  
))  
L48 1 SEA ABB=ON PLU=ON L47 AND L28  
L49 16 SEA ABB=ON PLU=ON L47 AND L30  
L50 8 SEA ABB=ON PLU=ON L47 AND L36  
L51 1 SEA ABB=ON PLU=ON L47 AND L39  
L52 0 SEA ABB=ON PLU=ON L47 AND L40  
L53 0 SEA ABB=ON PLU=ON L47 AND L41  
L54 48 SEA ABB=ON PLU=ON L47 AND ((L43 OR L44 OR L45 OR L46))  
L55 833 SEA ABB=ON PLU=ON L47 AND L26  
L56 861 SEA ABB=ON PLU=ON (L48 OR L49 OR L50 OR L51 OR L52 OR L53 OR  
L54 OR L55)  
L57 89 SEA ABB=ON PLU=ON L56 AND CAPACITOR  
L58 2 SEA ABB=ON PLU=ON L56 AND CAPACITIV#####  
L59 61 SEA ABB=ON PLU=ON L56 AND CAPACITANCE  
L60 6 SEA ABB=ON PLU=ON L56 AND (CHARG#### OR ENERGY) (2A) STOR#####  
  
L61 144 SEA ABB=ON PLU=ON (L57 OR L58 OR L59 OR L60)  
L62 73 SEA ABB=ON PLU=ON L61 AND (WIRE OR WIRING OR LINE OR BITLINE  
OR VIA OR CONDUCTOR OR PATH OR METALIS? OR METALLIZ? OR  
METALIZ? OR METALLIS?)  
L63 2 SEA ABB=ON PLU=ON L61 AND ?WIRE?  
L64 14 SEA ABB=ON PLU=ON L61 AND ?WIRING?  
L65 64 SEA ABB=ON PLU=ON L61 AND ?LINE?  
L66 82 SEA ABB=ON PLU=ON (L62 OR L63 OR L64 OR L65)

FILE 'STNGUIDE' ENTERED AT 17:56:00 ON 14 FEB 2005

FILE 'HCAPLUS' ENTERED AT 17:58:02 ON 14 FEB 2005

L67 296 SEA ABB=ON PLU=ON H01L031-036?/IC  
L68 35 SEA ABB=ON PLU=ON 257057?/NCL  
L69 44 SEA ABB=ON PLU=ON L47 AND (L67 OR L68)  
L70 15 SEA ABB=ON PLU=ON (L48 OR L49 OR L50 OR L51 OR L52 OR L53 OR  
L54 OR L55 OR L56 OR L57 OR L58 OR L59 OR L60 OR L61 OR L62 OR  
L63 OR L64 OR L65 OR L66) AND (L67 OR L68)  
D ALL HITSTR TOT

FILE 'STNGUIDE' ENTERED AT 18:00:20 ON 14 FEB 2005

FILE 'HCAPLUS, WPIX' ENTERED AT 18:01:39 ON 14 FEB 2005

L71 4 SEA ABB=ON PLU=ON US2002093019/PN

L72 2 SEA ABB=ON PLU=ON US2003038303/PN  
 L73 6 SEA ABB=ON PLU=ON (L71 OR L72)  
 L74 1 SEA ABB=ON PLU=ON JP04225558/PN

FILE 'JAPIO' ENTERED AT 18:03:50 ON 14 FEB 2005

L75 1 SEA ABB=ON PLU=ON JP04225558/PN  
 D MAX

FILE 'HCAPLUS, WPIX' ENTERED AT 18:04:26 ON 14 FEB 2005  
 D L73 ALL TOT

FILE 'HCAPLUS' ENTERED AT 18:06:16 ON 14 FEB 2005

L76 193 SEA ABB=ON PLU=ON (L48 OR L49 OR L50 OR L51 OR L52 OR L53 OR  
 L54) OR (L57 OR L58 OR L59 OR L60 OR L61 OR L62 OR L63 OR L64  
 OR L65 OR L66)  
 L77 190 SEA ABB=ON PLU=ON L76 NOT L70  
 L78 45 SEA ABB=ON PLU=ON STRUCTURE AND L77  
 L79 43 SEA ABB=ON PLU=ON STRUCTURE AND LLD

FILE 'STNGUIDE' ENTERED AT 18:07:24 ON 14 FEB 2005

FILE 'HCAPLUS' ENTERED AT 18:10:23 ON 14 FEB 2005

L80 498 SEA ABB=ON PLU=ON GOLD STRUCTURE  
 L81 0 SEA ABB=ON PLU=ON L77 AND L80  
 L82 0 SEA ABB=ON PLU=ON L77 AND NTFT  
 L83 0 SEA ABB=ON PLU=ON L77 AND PTFT  
 L84 0 SEA ABB=ON PLU=ON L77 AND P THIN FILM  
 L85 1 SEA ABB=ON PLU=ON L77 AND N THIN FILM  
 D ALL HITSTR  
 L86 3437 SEA ABB=ON PLU=ON LDD OR LIGHTLY DOPED DRAIN##  
 L87 22 SEA ABB=ON PLU=ON LATID  
 L88 1 SEA ABB=ON PLU=ON LARGE TILT ANGLE IMPLANTED DRAIN  
 L89 156 SEA ABB=ON PLU=ON LARGE TILT ANGLE  
 L90 22 SEA ABB=ON PLU=ON IMPLANTED DRAIN  
 L91 229 SEA ABB=ON PLU=ON OVERLAP##### AND (L80 OR L81 OR L82 OR L83  
 OR L84 OR L85 OR L86 OR L87 OR L88 OR L89 OR L90)  
 L92 7 SEA ABB=ON PLU=ON L77 AND (L80 OR L81 OR L82 OR L83 OR L84  
 OR L85 OR L86 OR L87 OR L88 OR L89 OR L90 OR L91)  
 L93 16 SEA ABB=ON PLU=ON L70 OR L85  
 D L88 ALL  
 L94 6 SEA ABB=ON PLU=ON L92 NOT (L93 OR L88)  
 D ALL HITSTR TOT  
 L95 23 SEA ABB=ON PLU=ON L92 OR L93 OR L88

FILE 'HCAPLUS, WPIX' ENTERED AT 18:16:08 ON 14 FEB 2005

L96 SEL PLU=ON L73 1- PN : 25 TERMS

FILE 'DPCI' ENTERED AT 18:16:19 ON 14 FEB 2005

L97 25 SEA ABB=ON PLU=ON L96/PN.G  
 L98 SEL PLU=ON L97 1- PRN : 42 TERMS  
 L99 47 SEA ABB=ON PLU=ON L98

FILE 'WPIX, JAPIO, HCAPLUS' ENTERED AT 18:16:50 ON 14 FEB 2005

L100 105 SEA ABB=ON PLU=ON L98  
 L101 20 SEA ABB=ON PLU=ON L100 AND 1999-2005/PRY  
 L102 40 SEA ABB=ON PLU=ON L100 AND 1995-1998/PRY  
 L103 85 SEA ABB=ON PLU=ON L100 NOT L101  
 L104 102 SEA ABB=ON PLU=ON L102 OR L103  
 L105 15 SEA ABB=ON PLU=ON L104 AND ?WIRE?  
 L106 24 SEA ABB=ON PLU=ON L104 AND ?WIRING?  
 L107 50 SEA ABB=ON PLU=ON L104 AND ?LINE?  
 L108 9 SEA ABB=ON PLU=ON (L105 OR L106 OR L107) AND OVERLAP#####